



Appendix 8. Priority Chemical List (EO 13148 Section 503 Chemical List)

Use	Chemical	Suggested Proposed/Draft Alternatives	Proposed Limitations/Exceptions	Proposed Reporting Threshold Limitations	Reporting Measurements
Temperature and pressure measuring devices (medical and industrial)	Mercury	Aneroid manometers – digital and electronic temperature measuring devices	Except where called for in third-party specification or certification (ASTM, NIST, EPA)	0 pounds	Pounds of Mercury
Switches	Mercury	Electronic thermostats – mechanical switches, ultrasonic and photoelectric sensors	ONLY for new construction, renovation in facilities, and replacement in hardware, etc.	0 pounds	Pounds of Mercury
Electroplating processes	Cadmium	Alternative metal coatings, metal deposition, flame coating, limited area plating		0 pounds	Pounds of Cadmium used
Electroplating processes	Chrome (chromium VI)	Alternative metal coatings, metal deposition, flame coating, limited area plating, Chromium III sputtering	Exempt plates and dies for BEP and Mint for official currency and coins based on commitment to review alternatives	100 pounds	Pounds of Chromium used
Wastewater Disinfection	Chlorine (solid)	Ozone treatment, UV light, sodium hypochlorite	For new construction and renovations – to be reviewed for feasibility in cases of non-renovation replacement	100 pounds	Pounds of Chlorine used
Wastewater Disinfection	Chlorine (gaseous)	Ozone treatment, UV light, sodium hypochlorite	For new construction and renovations – to be reviewed for feasibility in cases of non-renovation replacement	100 pounds	Pounds of Chlorine used
Biocide in cooling towers	Chlorine (solid)	Ozone treatment		100 pounds	Pounds of Chlorine used
Biocide in cooling towers	Chlorine (gaseous)	Ozone treatment		100 pounds	Pounds of Chlorine used
Photographic Operations	Silver	Digital photographic processes	Calculate number of units or silver recovered	100 pounds	Number of photo units
Radiography (medical and industrial)	Silver	Digital computer radiography	Calculate number of units or silver recovered	100 pounds	Number of X-ray units, number of X-rays developed
Tin/Lead Soldering (Electrical & electronic components)	Lead	Tin copper eutectic, Tin silver eutectic	Repair and rework operations only	5 pounds	Pounds of lead solder used
Medical/General Sterilizer	Ethylene Oxide	Gamma, electron beam radiation, vapor phase hydrogen peroxide, peracetic acid		100 pounds	Pounds of EtO ₂ used
Pesticide/Insecticide	Methoxychlor	Integrated Pest Management including process changes		100 pounds	Pounds of Methoxychlor used
Pesticide	Naphthalene	Integrated Pest Management including process changes		100 pounds	Pounds of Naphthalene used
Pesticide	Pentachlorobenzene	Integrated Pest Management including process changes		100 pounds	Pounds of Pentachlorobenzene used
Insulating material (dielectric fluids in transformers and ballasts)	PCBs	Early retirement of existing PCB containing equipment	<i>“PCB contaminated: 50-499 ppm; PCBs: 500 ppm+; not regulated by TSCA: less than 50 ppm. Inventoried info: transformers, capacitors, PCB-containing items & gallons of fluid is reported”</i>	0 pounds	Pounds of PCBs in fluid